

Specifications for a Multilabel Plate Reader
[PerkinElmer Victor X4 Model Multilabel Plate Reader, #2030-0040 or equal]

The multilabel plate reader must have the following specifications:

- Fluorescence Intensity (340-850 nm) with dual ration measurements and top and bottom fluorescence using tungsten-halogen lamp and Xenon flash lamp.
- Fluorescence Polarization (400-850 nm)
- Detection units include Photomultiplier tube and Photodiode.
- Time-Resolved Fluorescence (TRF) with dual window TRF and dual emission measurements.
- Glow, flash, and dual luminescence
- Visible absorbance between 340-1000 nm.
- UV Absorbance 260 nm/280 nm
- Compatible with SBS-compatible microtiter plates from 1-1536 wells
- Compatible with Petri plates, slides, filters, and PCR plates.
- Temperature control up to +50° C for control of assay conditions.
- Excitation filter wheel and expanded absorbance wavelengths up to 1000 nm.
- Capability for linear, orbital, and double orbital shaking with adjustable duration, speed and amplitude.
- Capacity for dispensing with up to four dispensing syringes.
- Compatible with Windows® XP
- Compatible with Laboratory Response Network testing protocols issued by the Centers for disease Control and Prevention (CDC)
- Size of plate reader should be under 15 inches high, 24 inches deep, 20 inches wide and weigh under 115 lbs with stackers.
- Voltage should be 110-120 V/50 Hz and consumption at 400 VA